

Alan Schwartz

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Sent: Friday, November 23, 2001 12:30 PM
To: Schwartz, Alan; Balzano, Richard A.; 'mbayer@erols.com'; Basl, Roger, Maj, OSD-ATL
Subject: NAICS classification of industries -- for Red-NUF

Not much chance for action before we meet Thursday; but I'd like to implement the substitution of the census standard classification for our intuitive pluckings, as part of the Blue Assets axis. With that more complete roster, then we highlight what we regard as the most critical entries, and probably go to even finer granularity. Thus we can be reasonably sure of gapless coverage.

I've searched [NAICS census.gov] for good leads. Perhaps we can get some of the folks at Census to help us navigate through these extensive waters, with their data on scope of industry, and perhaps how each plays into overall economy.

What follows is gleaned from:
<http://www.census.gov/epcd/naics/naicscod.txt>

I've trimmed to to 4-digit categories.

Subject: 1997 U.S. NAICS Codes and Titles 4-digit resolution
<http://www.census.gov/epcd/naics/naicscod.txt>

1997 U.S. NAICS Codes and Titles July 1998

reduced to 4-digit codes, with appendix on chemical industry
Mostly this is more detailed than we want at first blush.

Could one of you take on trimming the detail where it is obviously superfluous from our perspective? e.g. 111.. crop production, I'd guess

- 11 Agriculture, Forestry, Fishing and Hunting
 - ✓ 111 Crop Production
 - 1111 Oilseed and Grain Farming
 - 1112 Vegetable and Melon Farming
 - 1113 Fruit and Tree Nut Farming
 - 1114 Greenhouse, Nursery, and Floriculture Production
 - 1119 Other Crop Farming
 - 112 Animal Production
 - ✓ 1121 ✓ Cattle Ranching and Farming
 - 1122 Hog and Pig Farming
 - 1123 Poultry and Egg Production
 - 1124 Sheep and Goat Farming
 - 1125 Animal Aquaculture
 - 1129 Other Animal Production

- first five*
- 113 Forestry and Logging
 - 1131 Timber Tract Operations
 - 1132 Forest Nurseries and Gathering of Forest Products
 - 1133 Logging
 - 114 Fishing, Hunting and Trapping
 - 1141 Fishing
 - 1142 Hunting and Trapping
 - 115 Support Activities for Agriculture and Forestry
 - 1151 Support Activities for Crop Production
 - 1152 Support Activities for Animal Production
 - 1153 Support Activities for Forestry
 - 21 Mining
 - ✓ 211 Oil and Gas Extraction
 - 2111 Oil and Gas Extraction
 - 212 Mining (except Oil and Gas)
 - 2121 Coal Mining
 - 2122 Metal Ore Mining
 - ? 2123 Nonmetallic Mineral Mining and Quarrying
 - 213 Support Activities for Mining
 - 2131 Support Activities for Mining
 - ✓ 22 Utilities
 - ✓ 221 Utilities
 - ✓ 2211 Electric Power Generation, Transmission and Distribution
 - ✓ 2212 Natural Gas Distribution
 - ✓ 2213 Water, Sewage and Other Systems
 - 23 Construction
 - 233 Building, Developing, and General Contracting
 - 2331 Land Subdivision and Land Development
 - 2332 Residential Building Construction
 - 2333 Nonresidential Building Construction
 - 234 Heavy Construction
 - 2341 Highway, Street, Bridge, and Tunnel Construction
 - 2349 Other Heavy Construction
 - 235 Special Trade Contractors
 - 2351 Plumbing, Heating, and Air-Conditioning Contractors
 - 2352 Painting and Wall Covering Contractors
 - 2353 Electrical Contractors
 - 2354 Masonry, Drywall, Insulation, and Tile Contractors
 - 2355 Carpentry and Floor Contractors
 - 2356 Roofing, Siding, and Sheet Metal Contractors
 - 2357 Concrete Contractors
 - 2358 Water Well Drilling Contractors
 - 2359 Other Special Trade Contractors
 - 31-33 Manufacturing
 - 311 Food Manufacturing
 - 3111 Animal Food Manufacturing — *BBE*
 - 3112 Grain and Oilseed Milling
 - 3113 Sugar and Confectionery Product Manufacturing
 - 3114 Fruit and Vegetable Preserving and Specialty Food Manufacturing
 - ✓ 3115 Dairy Product Manufacturing
 - 3116 Animal Slaughtering and Processing

Few processors.

- 3117 Seafood Product Preparation and Packaging
- 3118 Bakeries and Tortilla Manufacturing
- 3119 Other Food Manufacturing
- 312 Beverage and Tobacco Product Manufacturing
- 3121 Beverage Manufacturing —
- 3122 Tobacco Manufacturing
- 313 Textile Mills
- 3131 Fiber, Yarn, and Thread Mills
- 3132 Fabric Mills
- 3133 Textile and Fabric Finishing and Fabric Coating Mills
- 314 Textile Product Mills
- 3141 Textile Furnishings Mills
- 3149 Other Textile Product Mills
- 315 Apparel Manufacturing
- 3151 Apparel Knitting Mills
- 3152 Cut and Sew Apparel Manufacturing
- 3159 Apparel Accessories and Other Apparel Manufacturing
- 316 Leather and Allied Product Manufacturing
- 3161 Leather and Hide Tanning and Finishing
- 3162 Footwear Manufacturing
- 3169 Other Leather and Allied Product Manufacturing
- 321 Wood Product Manufacturing
- 3211 Sawmills and Wood Preservation
- 3212 Veneer, Plywood, and Engineered Wood Product Manufacturing
- 3219 Other Wood Product Manufacturing
- 322 Paper Manufacturing
- 3221 Pulp, Paper, and Paperboard Mills
- 3222 Converted Paper Product Manufacturing
- 323 Printing and Related Support Activities
- 3231 Printing and Related Support Activities
- ✓ 324 Petroleum and Coal Products Manufacturing
- 3241 Petroleum and Coal Products Manufacturing
- ✓ 325 Chemical Manufacturing
- 3251 Basic Chemical Manufacturing
- ✓ 3252 Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing
- 3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing
- ✓✓ 3254 Pharmaceutical and Medicine Manufacturing
- 3255 Paint, Coating, and Adhesive Manufacturing
- 3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing
- ✓ 3259 Other Chemical Product and Preparation Manufacturing
- 326 Plastics and Rubber Products Manufacturing
- 3261 Plastics Product Manufacturing
- 3262 Rubber Product Manufacturing
- 327 Nonmetallic Mineral Product Manufacturing
- 3271 Clay Product and Refractory Manufacturing
- 3272 Glass and Glass Product Manufacturing
- 3273 Cement and Concrete Product Manufacturing
- 3274 Lime and Gypsum Product Manufacturing
- 3279 Other Nonmetallic Mineral Product Manufacturing
- 331 Primary Metal Manufacturing
- 3311 Iron and Steel Mills and Ferroalloy Manufacturing

specialty steel

- 3312 Steel Product Manufacturing from Purchased Steel
- 3313 Alumina and Aluminum Production and Processing
- 3314 Nonferrous Metal (except Aluminum) Production and Processing
- 3315 Foundries
- ? 332 Fabricated Metal Product Manufacturing
- 3321 Forging and Stamping
- 3322 Cutlery and Handtool Manufacturing
- 3323 Architectural and Structural Metals Manufacturing
- 3324 Boiler, Tank, and Shipping Container Manufacturing
- 3325 Hardware Manufacturing
- 3326 Spring and Wire Product Manufacturing
- 3327 Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing
- 3328 Coating, Engraving, Heat Treating, and Allied Activities
- 3329 Other Fabricated Metal Product Manufacturing
- 333 Machinery Manufacturing
- ✓ 3331 Agriculture, Construction, and Mining Machinery Manufacturing
- ? 3332 Industrial Machinery Manufacturing
- 3333 Commercial and Service Industry Machinery Manufacturing
- 3334 Ventilation, Heating, Air-Conditioning, and Commercial Refrigeration Equipment Manufacturing
- ✓ 3335 Metalworking Machinery Manufacturing
- ✓ 3336 Engine, Turbine, and Power Transmission Equipment Manufacturing
- 3339 Other General Purpose Machinery Manufacturing
- 334 Computer and Electronic Product Manufacturing
- 3341 Computer and Peripheral Equipment Manufacturing
- 3342 Communications Equipment Manufacturing
- 3343 Audio and Video Equipment Manufacturing
- 3344 Semiconductor and Other Electronic Component Manufacturing
- 3345 Navigational, Measuring, Electromedical, and Control Instruments Manufacturing
- 3346 Manufacturing and Reproducing Magnetic and Optical Media
- 335 Electrical Equipment, Appliance, and Component Manufacturing
- 3351 Electric Lighting Equipment Manufacturing
- 3352 Household Appliance Manufacturing
- 3353 Electrical Equipment Manufacturing — !!!
- 3359 Other Electrical Equipment and Component Manufacturing
- 336 Transportation Equipment Manufacturing
- 3361 Motor Vehicle Manufacturing
- 3362 Motor Vehicle Body and Trailer Manufacturing
- 3363 Motor Vehicle Parts Manufacturing
- 3364 Aerospace Product and Parts Manufacturing
- 3365 Railroad Rolling Stock Manufacturing
- 3366 Ship and Boat Building
- 3369 Other Transportation Equipment Manufacturing
- 337 Furniture and Related Product Manufacturing
- 3371 Household and Institutional Furniture and Kitchen Cabinet Manufacturing
- 3372 Office Furniture (including Fixtures) Manufacturing
- 3379 Other Furniture Related Product Manufacturing
- 339 Miscellaneous Manufacturing
- 3391 Medical Equipment and Supplies Manufacturing
- 3399 Other Miscellaneous Manufacturing
- (42) Wholesale Trade

potential vector; no obvious risk point

- 421 Wholesale Trade, Durable Goods
 - 4211 Motor Vehicle and Motor Vehicle Parts and Supplies Wholesalers
 - 4212 Furniture and Home Furnishing Wholesalers
 - 4213 Lumber and Other Construction Materials Wholesalers
 - 4214 Professional and Commercial Equipment and Supplies Wholesalers
 - 4215 Metal and Mineral (except Petroleum) Wholesalers
 - 4216 Electrical Goods Wholesalers
 - 4217 Hardware, and Plumbing and Heating Equipment and Supplies Wholesalers
 - 4218 Machinery, Equipment, and Supplies Wholesalers
 - 4219 Miscellaneous Durable Goods Wholesalers
- 422 Wholesale Trade, Nondurable Goods
 - 4221 Paper and Paper Product Wholesalers
 - 4222 Drugs and Druggists' Sundries Wholesalers
 - 4223 Apparel, Piece Goods, and Notions Wholesalers
 - 4224 Grocery and Related Product Wholesalers
 - 4225 Farm Product Raw Material Wholesalers
 - 4226 Chemical and Allied Products Wholesalers
 - 4227 Petroleum and Petroleum Products Wholesalers
 - 4228 Beer, Wine, and Distilled Alcoholic Beverage Wholesalers
 - 4229 Miscellaneous Nondurable Goods Wholesalers
- 44-45 Retail Trade
 - 441 Motor Vehicle and Parts Dealers
 - 4411 Automobile Dealers
 - 4412 Other Motor Vehicle Dealers
 - 4413 Automotive Parts, Accessories, and Tire Stores
 - 442 Furniture and Home Furnishings Stores
 - 4421 Furniture Stores
 - 4422 Home Furnishings Stores
 - 443 Electronics and Appliance Stores
 - 4431 Electronics and Appliance Stores
 - 444 Building Material and Garden Equipment and Supplies Dealers
 - 4441 Building Material and Supplies Dealers
 - 4442 Lawn and Garden Equipment and Supplies Stores
 - ✓ 445 Food and Beverage Stores
 - 4451 Grocery Stores
 - 4452 Specialty Food Stores
 - 4453 Beer, Wine, and Liquor Stores
 - 446 Health and Personal Care Stores
 - 4461 Health and Personal Care Stores
 - ✓ 447 Gasoline Stations
 - 4471 Gasoline Stations
 - 448 Clothing and Clothing Accessories Stores
 - 4481 Clothing Stores
 - 4482 Shoe Stores
 - 4483 Jewelry, Luggage, and Leather Goods Stores
 - 451 Sporting Goods, Hobby, Book, and Music Stores
 - 4511 Sporting Goods, Hobby, and Musical Instrument Stores
 - 4512 Book, Periodical, and Music Stores
 - 452 General Merchandise Stores
 - 4521 Department Stores
 - 4529 Other General Merchandise Stores

- 453 Miscellaneous Store Retailers
- 4531 Florists
- 4532 Office Supplies, Stationery, and Gift Stores
- 4533 Used Merchandise Stores
- 4539 Other Miscellaneous Store Retailers
- 454 Nonstore Retailers
- 4541 Electronic Shopping and Mail-Order Houses
- 4542 Vending Machine Operators
- 4543 Direct Selling Establishments
- 48-49 Transportation and Warehousing
- ✓ 481 Air Transportation
 - 4811 Scheduled Air Transportation
 - 4812 Nonscheduled Air Transportation
- ✓ 482 Rail Transportation
 - 4821 Rail Transportation
- ✓ 483 Water Transportation
 - 4831 Deep Sea, Coastal, and Great Lakes Water Transportation
 - 4832 Inland Water Transportation
- ✓ 484 Truck Transportation
 - 4841 General Freight Trucking
 - 4842 Specialized Freight Trucking
- ✓ 485 Transit and Ground Passenger Transportation
 - 4851 Urban Transit Systems
 - 4852 Interurban and Rural Bus Transportation
 - 4853 Taxi and Limousine Service
 - 4854 School and Employee Bus Transportation
 - 4855 Charter Bus Industry
 - 4859 Other Transit and Ground Passenger Transportation
- ✓ 486 Pipeline Transportation
 - 4861 Pipeline Transportation of Crude Oil
 - 4862 Pipeline Transportation of Natural Gas
 - 4869 Other Pipeline Transportation
- 487 Scenic and Sightseeing Transportation
 - 4871 Scenic and Sightseeing Transportation, Land
 - 4872 Scenic and Sightseeing Transportation, Water
 - 4879 Scenic and Sightseeing Transportation, Other
- 488 Support Activities for Transportation
 - 4881 Support Activities for Air Transportation
 - 4882 Support Activities for Rail Transportation
 - 4883 Support Activities for Water Transportation
 - 4884 Support Activities for Road Transportation
 - 4885 Freight Transportation Arrangement
 - 4889 Other Support Activities for Transportation
- ✓ 491 Postal Service
 - 4911 Postal Service
- 492 Couriers and Messengers
 - 4921 Couriers
 - 4922 Local Messengers and Local Delivery
- 493 Warehousing and Storage
 - 4931 Warehousing and Storage
- 51 Information

- 5418 Advertising and Related Services
- 5419 Other Professional, Scientific, and Technical Services
- 55 Management of Companies and Enterprises
- 551 Management of Companies and Enterprises
- 5511 Management of Companies and Enterprises
- 56 Administrative and Support and Waste Management and Remediation Services
- 561 Administrative and Support Services
- 5611 Office Administrative Services
- 5612 Facilities Support Services
- 5613 Employment Services
- 5614 Business Support Services
- 5615 Travel Arrangement and Reservation Services
- 5616 Investigation and Security Services
- 5617 Services to Buildings and Dwellings
- 5619 Other Support Services
- ✓✓ 562 Waste Management and Remediation Services
- 5621 Waste Collection
- 5622 Waste Treatment and Disposal
- 5629 Remediation and Other Waste Management Services
- ✓ 61 Educational Services
- 611 Educational Services
- 6111 Elementary and Secondary Schools
- 6112 Junior Colleges
- 6113 Colleges, Universities, and Professional Schools
- 6114 Business Schools and Computer and Management Training
- 6115 Technical and Trade Schools
- 6116 Other Schools and Instruction
- 6117 Educational Support Services
- ✓ 62 Health Care and Social Assistance
- 621 Ambulatory Health Care Services
- 6211 Offices of Physicians
- 6212 Offices of Dentists
- 6213 Offices of Other Health Practitioners
- 6214 Outpatient Care Centers
- 6215 Medical and Diagnostic Laboratories
- 6216 Home Health Care Services
- 6219 Other Ambulatory Health Care Services
- ✓ 622 Hospitals
- 6221 General Medical and Surgical Hospitals
- 6222 Psychiatric and Substance Abuse Hospitals
- 6223 Specialty (except Psychiatric and Substance Abuse) Hospitals
- 623 Nursing and Residential Care Facilities
- 6231 Nursing Care Facilities
- 6232 Residential Mental Retardation, Mental Health and Substance Abuse Facilities
- 6233 Community Care Facilities for the Elderly
- 6239 Other Residential Care Facilities
- 624 Social Assistance
- 6241 Individual and Family Services
- 6242 Community Food and Housing, and Emergency and Other Relief Services
- 6243 Vocational Rehabilitation Services
- 6244 Child Day Care Services

- 71 Arts, Entertainment, and Recreation
 - 711 Performing Arts, Spectator Sports, and Related Industries
 - 7111 Performing Arts Companies
 - 7112 Spectator Sports
 - 7113 Promoters of Performing Arts, Sports, and Similar Events
 - 7114 Agents and Managers for Artists, Athletes, Entertainers, and Other Public Figures
 - 7115 Independent Artists, Writers, and Performers
 - 712 Museums, Historical Sites, and Similar Institutions
 - 7121 Museums, Historical Sites, and Similar Institutions
 - 713 Amusement, Gambling, and Recreation Industries
 - 7131 Amusement Parks and Arcades
 - 7132 Gambling Industries
 - 7139 Other Amusement and Recreation Industries
- 72 Accommodation and Food Services
 - 721 Accommodation
 - 7211 Traveler Accommodation
 - 7212 RV (Recreational Vehicle) Parks and Recreational Camps
 - 7213 Rooming and Boarding Houses
 - 722 Food Services and Drinking Places
 - 7221 Full-Service Restaurants
 - 7222 Limited-Service Eating Places
 - 7223 Special Food Services
 - 7224 Drinking Places (Alcoholic Beverages)
- 81 Other Services (except Public Administration)
 - 811 Repair and Maintenance
 - 8111 Automotive Repair and Maintenance
 - ✓ 8112 Electronic and Precision Equipment Repair and Maintenance
 - ✓ 8113 Commercial and Industrial Machinery and Equipment (except Automotive and Electronic)
 - Repair and Maintenance
 - 8114 Personal and Household Goods Repair and Maintenance
 - 812 Personal and Laundry Services
 - 8121 Personal Care Services
 - 8122 Death Care Services
 - 8123 Drycleaning and Laundry Services
 - 8129 Other Personal Services
 - 813 Religious, Grantmaking, Civic, Professional, and Similar Organizations
 - 8131 Religious Organizations
 - 8132 Grantmaking and Giving Services
 - 8133 Social Advocacy Organizations
 - 8134 Civic and Social Organizations
 - 8139 Business, Professional, Labor, Political, and Similar Organizations
 - 814 Private Households
 - 8141 Private Households
- 92 Public Administration
 - 921 Executive, Legislative, and Other General Government Support
 - 9211 Executive, Legislative, and Other General Government Support
 - ✓ 922 Justice, Public Order, and Safety Activities
 - 9221 Justice, Public Order, and Safety Activities
 - 923 Administration of Human Resource Programs
 - 9231 Administration of Human Resource Programs
 - 924 Administration of Environmental Quality Programs

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9241 Administration of Environmental Quality Programs — *data projected*
 925 Administration of Housing Programs, Urban Planning, and Community Development
 9251 Administration of Housing Programs, Urban Planning, and Community Development
 926 Administration of Economic Programs
 9261 Administration of Economic Programs
 927 Space Research and Technology
 9271 Space Research and Technology
 928 National Security and International Affairs
 9281 National Security and International Affairs

325 Chemical Manufacturing
 3251 Basic Chemical Manufacturing
 * 32511 Petrochemical Manufacturing — *HS Rsh 1/4/83*
 * 32512 Industrial Gas Manufacturing
 32513 Synthetic Dye and Pigment Manufacturing
 325131 Inorganic Dye and Pigment Manufacturing
 325132 Synthetic Organic Dye and Pigment Manufacturing
 32518 Other Basic Inorganic Chemical Manufacturing
 325181 Alkalies and Chlorine Manufacturing —————→
 325182 Carbon Black Manufacturing
 325188 All Other Basic Inorganic Chemical Manufacturing
 32519 Other Basic Organic Chemical Manufacturing
 325191 Gum and Wood Chemical Manufacturing
 325192 Cyclic Crude and Intermediate Manufacturing
 325193 Ethyl Alcohol Manufacturing
 325199 All Other Basic Organic Chemical Manufacturing
 3252 Resin, Synthetic Rubber, and Artificial and Synthetic Fibers and Filaments Manufacturing
 32521 Resin and Synthetic Rubber Manufacturing
 325211 Plastics Material and Resin Manufacturing *
 325212 Synthetic Rubber Manufacturing
 32522 Artificial and Synthetic Fibers and Filaments Manufacturing
 325221 Cellulosic Organic Fiber Manufacturing
 325222 Noncellulosic Organic Fiber Manufacturing
 3253 Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing
 32531 Fertilizer Manufacturing
 325311 Nitrogenous Fertilizer Manufacturing ————— *Fertilizer Institute*
 325312 Phosphatic Fertilizer Manufacturing
 325314 Fertilizer (Mixing Only) Manufacturing
 32532 Pesticide and Other Agricultural Chemical Manufacturing
 3254 Pharmaceutical and Medicine Manufacturing
 32541 Pharmaceutical and Medicine Manufacturing
 325411 Medicinal and Botanical Manufacturing
 325412 Pharmaceutical Preparation Manufacturing
 325413 In-Vitro Diagnostic Substance Manufacturing
 325414 Biological Product (except Diagnostic) Manufacturing
 3255 Paint, Coating, and Adhesive Manufacturing
 32551 Paint and Coating Manufacturing
 32552 Adhesive Manufacturing
 3256 Soap, Cleaning Compound, and Toilet Preparation Manufacturing

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32561 Soap and Cleaning Compound Manufacturing
325611 Soap and Other Detergent Manufacturing
325612 Polish and Other Sanitation Good Manufacturing
325613 Surface Active Agent Manufacturing
32562 Toilet Preparation Manufacturing
3259 Other Chemical Product and Preparation Manufacturing
32591 Printing Ink Manufacturing
*32592 Explosives Manufacturing . . .
32599 All Other Chemical Product and Preparation Manufacturing
325991 Custom Compounding of Purchased Resins
325992 Photographic Film, Paper, Plate, and Chemical Manufacturing
325998 All Other Miscellaneous Chemical Product and Preparation Manufacturing

Nuclear Identity